

### ***Project Summary and Justification***

Department     Public Works

Division         StarTran

Since public acquisition of the Lincoln City Lines in 1971, StarTran has been providing efficient, convenient, and economical public transportation services. The services provided comply with the current 2025 Comprehensive Regional Plan. Previous capital improvement programs have included equipment essential in StarTran's provision of services. The F.Y. 2005-2011 CIP describes capital items which will afford the opportunity for continued improvement of StarTran services. Future years include continued replacement of additional StarTran transit vehicles and purchase of associated equipment/items.

#### **Project 1         Purchase of Full-size Buses**

A phased purchase of full-size replacement transit buses is identified, as follows:

	<u>Buses Purchased</u>	<u>Funding Accumulated</u>	<u>Potential Replacement Buses</u>	<u>Delivery</u>
a.	15	F.Y. 2004-05 through F.Y. 2006-07	11 1986 & 4 1993 Flexible Buses	F.Y. 2006-07
b.	15	F.Y. 2007-08 through F.Y. 2009-10	15 1997 Gillig Buses	F.Y. 2009-10
c.	20	F.Y. 2010-11 through F.Y. 2014-15	20 2001 Gillig Buses	F.Y. 2014-15

Local funding for the above bus purchases is comprised of City of Lincoln general revenues and the portion of the contractual funds from the University of Nebraska (StarTran/UNL Transportation Program) designated for vehicle replacement. The Federal Transit Administration (FTA) regulations allow phasing of bus purchases as an alternate to the traditional direct purchase of buses. FTA requires that full-size transit vehicles have a twelve-year economic life, although StarTran typically operates buses more than twelve years before replacement. All of the current buses being replaced as indicated above will have exceeded the required twelve years of operation. An analysis of the structural and engine conditions of the StarTran fleet is conducted annually, which is utilized to develop the replacement program of StarTran buses. The above phased bus replacement schedule is in compliance with the most recent analyses and bus replacement program.

#### **Project 2         Bus Storage Facility Expansion**

The current bus storage facility, built in 1986, was designed to accommodate 35 foot buses. All bus manufacturers are now primarily offering only the redesigned low-floor transit vehicles. Such redesigned vehicles are consistently 36 foot in length, one foot longer than the 35 foot previously- manufactured. In order to now store the same number of the 36 foot buses, and comply with fire codes, the storage facility must be expanded by approximately 6 feet. Such expansion will be necessary prior to the scheduled FY 2006-07 purchase of 15 replacement buses. As such, funds are included in the FY 2005-06 for expansion of the bus facility.

### ***Project Summary and Justification (cont.)***

Department      Public Works

Division          StarTran

#### **Project 3      Purchase of Supervisor Vehicles**

Funds are proposed in FY 2005-06, FY 2007-08 and FY 2009-10 to purchase three replacement supervisor vehicles. The vehicles to be replaced are a 1996 Dodge Intrepid, 2002 Dodge Durango and a 2004 Chevy Venture. Analyses are conducted evaluating the vehicle conditions and which will justify the need to replace the three subject vehicles. The larger SUV and mini-van supervisor vehicles, with 7-9 seats, is meeting the unique needs of StarTran supervisors, transporting supplies and schedules, and carrying patrons as necessary.

#### **Project 4      Shop Tools/Equipment**

Funds are proposed in each fiscal year for continued routine upgrade and replacement of tools and equipment, as well as for replacement due to unexpected breakage. Such tools and equipment include an additional brake lathe, and on-going replacement of garage doors.

#### **Project 5      Computer Hardware/Software**

Funds are proposed in F.Y. 2005-06, F.Y. 2007-08 and F.Y. 2009-10 for continued routine upgrade/replacement of StarTran computer hardware and software. Such funding will afford the opportunity for maintaining effective computer services for StarTran administration, operators, and maintenance functions. Staff training courses utilizing computerized programs are integrated as part of the continuing StarTran training program.

#### **Project 6      Purchase Transit Enhancements**

Effective FY 2004-05, one percent of the FTA allocation to StarTran is required by FTA to fund transit enhancements. Such enhancements, in general, include bus shelters, signage, art, pedestrian, bicycle related equipment and landscaping. Initially, such funding will be directed to the rehabilitation of the 11<sup>th</sup> & "O", Gold's passenger facilities, now over 20 years old, or location to be determined by Downtown Master Plan. When such restoration is completed, other such eligible facilities will be addressed. The purchase of bus shelters, originally scheduled for replacement in FY 2006-07, are not necessitated at this time due to adequate supply, so propose to defer replacement at a later time.

#### **Project 7      Purchase of Security Enhancements**

Effective FY 2004-05, one percent of the FTA allocation to StarTran is required by FTA to fund security enhancements. Such enhancements, in general, include increased facility lighting, camera surveillance, and emergency telephone line to contact security personnel. Funds are included in every year for purchase of security cameras and recording equipment to be installed on all StarTran buses.

#### **Project 8      Purchase of Replacement Service Vehicle**

Funds are included in F.Y. 2010-2011 to replace the 1996 Ford Service Vehicle. This vehicle, in FY 2010-11, will be 15 years old, and the current structural deterioration will be increased. This vehicle is utilized on a daily basis to service StarTran buses, including towing, jump starting, fluid replacement, and, in the winter, sanding and plowing.

### ***Project Summary and Justification (cont.)***

Department      Public Works

Division            StarTran

#### **Project 9      Handi-Van Replacement**

Funds are included in 2008-09 to begin the accumulation of funding for replacement of current (purchased in 2003) Handi-Van vehicles. Federal Transit Administration specifies that Handi-Van type vehicles have an operational economic life of five years.

#### **Project 10     Floor Scrubber**

Funds are included in F.Y. 2007-08 for the replacement of a floor scrubber. The current scrubber was purchased in 1982 and will have exceeded its normal operating life. The scrubber is utilized on all garage floors to effectively clean oil, grease and dirt build-up.

#### **Project 11     Building Maintenance**

Funds are included in FY 2006-07 for necessary repairs to the StarTran building facilities. Such repairs include roof replacement, HVAC replacement, painting of offices and lighting replacement.

#### **Project 12     “G” Street Building Roof**

Funds are included in F.Y. 2006-07 to replace the roof on the building located at 7th and “G” street. This building is currently used as an additional bus and parts storage area. The current roof is at least 30 years old and there is considerable leaking and deterioration on the roof. StarTran shares the building with Lincoln Parks & Recreation and Lincoln Fire Department. The funds programmed by StarTran would cover half the cost of replacing the roof. The Parks & Recreation and Fire Department expected to cover the rest of the cost. This project originally programmed for replacement in FY 2007-08, is currently in poor condition and needs to be replaced sooner than the original schedule, thus necessitating the scheduled replacement in FY 2006-07.

#### **Project 13     Implement AVL System**

Funds are included in FY 2005-06 for the implementation of Automatic Vehicle Location (AVL) System on all StarTran buses and vehicles. The AVL system will allow StarTran to more effectively monitor and manage its fleet of buses resulting in increased scheduling and service to patrons. The AVL system project would take advantage of the existing AVL communication infrastructure provided by Metro Area Transit in Omaha. Connecting to the existing Metro Area Transit receiver would significantly reduce start-up costs associated with the project. This is the third of the programmed three-year implementation of the StarTran AVL system. The \$491,600 of local match funds programmed in FY 2005-06 completes the funding for the project. Total project cost is \$1.7 million (\$861,582 Federal earmark & \$861,582 local funds).

#### **Project 14     Purchase Bus Wash System**

Funds are included in FY 2008-09 and 2009-10 for replacement of the drive through bus wash system. The wash system was purchased in 1994 and will have exceeded its normal operating life.

#### **Project 15     Replace Elevator in Administrative Area**

Funds are included in FY 2007-08 for the replacement of the elevator which provides ADA accessibility to the administrative area.

***Project Summary and Justification (cont.)***

Department	<u>Public Works</u>
Division	<u>StarTran</u>

**Project 16      Farebox Purchase**

Funds are included in F.Y. 2006-07 for replacement of all bus fareboxes. Currently, the fareboxes are 15 years old and have exceeded their normal operating life. Replacement of fareboxes will afford the opportunity to continue to effectively collect accurate passenger fares and process fare structure information for routine analysis. StarTran is expected to potentially implement the "smart card" technology in conjunction with the replacement of the fareboxes, which would enable patrons to utilize a debit card to make fare transactions. Such smartcard technology also has the potential to be implemented with other services such as paying parking fares. Total project cost is estimated at \$900,000. Additional funds will come from a combination of previously earmarked ITS funds and regularly appropriated capital funds.

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# Lincoln CIP 2005 - 2011

# StarTran

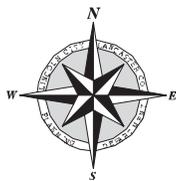


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## Lincoln's Future Service Limit Shown as Gray

Map prepared by  
City - Co. Planning Dept  
GIS Section

 StarTran Garage



M I L E S



**List of Projects***Department: Public Works/StarTran*

Project  
Number    Project Title

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- 1\*      Purchase of 15 Full Size Buses
- 2      Bus Storage Facility Expansion
- 3\*      Purchase Supervisor Vehicles
- 4\*      Shop Tools/Equipment
- 5\*      Computer Hardware/Software
- 6\*      Purchase Transit Enhancements
- 7\*      Purchase Security Enhancements
- 8\*      Purchase of Replacement Service Vehicle
- 9\*      Handi-Van Replacement
- 10\*     Floor Scrubber
- 11      Building Maintenance
- 12      "G" Street Building Roof
- 13\*     Implement AVL System
- 14      Purchase Bus Wash System
- 15      Replace Elevator in Administrative Area
- 16\*     Purchase Fareboxes

\*Indicates project is NOT shown on the map.

DEPARTMENT: PUBLIC WORKS

FORM A

## 2005 - 2011 CAPITAL IMPROVEMENT PROGRAM

DIVISION: STARTRAN

(1) PROJ. NO.	(2) PROJECT TITLE	(3) PROJ. PRIO.	(4) 3% Inflation per year															
			PROGRAMMED EXPENDITURES & FUNDING SOURCES (FS) (000's)															
			2005-2006	FS	2006-2007	FS	2007-2008	FS	2008-2009	FS	2009-2010	FS	2010-2011	FS				
1	Purchase/Financing of Full Size Buses	A	1,419.5	FA	1,331.5	FA												
	a. 15 Full Size Buses				178.7	GR												
			290.7	SR	94.0	SR												
	b. 15 Full Size Buses	A					1,541.9	FA	1,007.6	FA	1,007.6	FA						
							221.8	GR	112.4	GR	112.4	GR						
							94.0	SR	94.0	SR	94.0	SR						
	c. 20 Full Size Buses	A														1,245.0	FA	
																161.0	GR	
																94.0	SR	
2	Bus Storage Facility - Expansion	A	80.0	FA														
			20.0	SR														
3	Purchase of Supervisors Vehicles	A	17.6	FA			24.0	FA			26.4	FA						
			4.4	SR			6.0	GR			6.6	GR						
4	Shop Tools/Equipment	A	25.6	FA	28.8	FA	20.0	FA	20.0	FA	25.6	FA	25.6	FA		25.6	FA	
			6.4	SR	7.2	GR	5.0	GR	5.0	GR	6.4	GR	6.4	GR		6.4	GR	
5	Computer Hardware & Software	B	17.6	FA			16.0	FA			16.0	FA						
			4.4	SR			4.0	GR			4.0	GR						
6	Purchase of Transit Enhancements (required)	A	23.0	FA	23.0	FA	23.0	FA	23.0	FA	23.0	FA	23.0	FA		23.0	FA	
			5.7	SR	5.7	GR		5.7	GR									
7	Purchase of Security Enhancements (required)	A	32.0	FA	32.0	FA	32.0	FA	32.0	FA	32.0	FA	32.0	FA		32.0	FA	
			8.0	SR	8.0	GR		8.0	GR									
8	Purchase of Replacement Service Vehicles	A														48.0	FA	
																12.0	GR	
9	HandiVan Vehicle Replacement	B							485.6	FA								
									99.5	GR								
10	Floor Scrubber	C					40.0	FA										
							10.0	GR										
11	Bldg Maintenance and Renovations	B					80.0	FA								160.0	FA	
							20.0	GR								40.0	GR	
12	G Street Building Roof	B			40.0	FA												
					10.0	GR												
13	Implement AVL System	A	491.6	SR														

## FORM B

(5)	(6)	(7)		(8)	(9)	(10)	(11)						(1)	
TOTAL FOR SIX YEARS (000's)	COST BEYOND 2010-2011 (000's)	PRIOR APPROPRIATIONS (000's)		TOTAL CAP COSTS (000's) (5)+(6)+(7)	COMP PLAN CONFORM	STATUS OF PLANS	COST BREAKDOWNS FOR SIX-YEAR EXPENDITURES (000's)						PROJ. NO.	
		YEAR	FS				PRELIM PLANS	FINAL PLANS	LAND ACQUISITION	CONST	EQUIP / FURNISH	OTHER (EXPLAIN)		
3,314.4	None	1,112.4		4,426.8	GCP	2						3,314.4		1
4,285.7	None	None		4,285.7	GCP	2						4,285.7		
1,500.0	4,500.0	None		6,000.0	GCP	2						1,500.0		
100.0	None	None		100.0	GCP	2				100.0				2
85.0	30.0	None		115.0	GCP	2						85.0		3
182.0	32.0	26.5		240.5	GCP	0						182.0		4
62.0	20.0	None		82.0	GCP	2						62.0		5
172.2	28.7	28.7		229.6	GCP	2						172.0		6
240.0	40.0	40.0		320.0	GCP	2						240.0		7
60.0	None	55.0		115.0	GCP	2						60.0		8
585.1	None	None		585.1	GCP	2						585.1		9
50.0	None	None		50.0	GCP	2						50.0		10
300.0	None	None		300.0	GCP	2						300.0		11
50.0	None	None		50.0	GCP	2						50.0		12
491.6	None	830.0		1,321.6	GCP	2						491.6		13

DEPARTMENT: PUBLIC WORKS

FORM A

2005 - 2011 CAPITAL IMPROVEMENT PROGRAM

DIVISION: STARTRAN

(1)	(2)	(3)	3% Inflation per year (4)											
PROJ. NO.	PROJECT TITLE	PROJ. PRIO.	PROGRAMMED EXPENDITURES & FUNDING SOURCES (FS) (000's)											
			2005-2006	FS	2006-2007	FS	2007-2008	FS	2008-2009	FS	2009-2010	FS	2010-2011	FS
14	Purchase Bus Wash System	B							80.0	FA	80.0	FA		
									20.0	GR	20.0	GR		
15	Replace Elevator in Administrative Area	C					48.0	FA						
							12.0	GR						
*16	Purchase New Fareboxes, with Smart Cards	B		456.8	FA									
				160.4	GR									
<b>FUNDING SOURCE BREAKDOWN:</b>														
FA (Federal Aid)			1,615.3	1,912.1	1,824.9	1,648.2	1,210.6	1,533.6						
GR (General Revenue)				370.0	292.5	250.6	163.1	233.1						
SR (Special Reserves)			831.2	94.0	94.0	94.0	94.0	94.0						
<b>DIVISION TOTAL</b>			2,446.5	2,376.1	2,211.4	1,992.8	1,467.7	1,860.7						

(5)	(6)	(7)		(8)	(9)	(10)	(11)						(1)	
TOTAL FOR SIX YEARS (000's)	COST BEYOND 2010-2011 (000's)	PRIOR APPROPRIATIONS		TOTAL CAP COSTS (000's) (5)+(6)+(7)	COMP PLAN CONFORM	STATUS OF PLANS	COST BREAKDOWNS FOR SIX-YEAR EXPENDITURES (000's)						PROJ. NO.	
		YEAR	FS				PRELIM PLANS	FINAL PLANS	LAND ACQUISITION	CONST	EQUIP / FURNISH	OTHER (EXPLAIN)		
200.0	None	None		200.00	GCP	2						200.0		14
60.0	None	None		60.00	GCP	2						60.0		15
617.2	None	None		617.20	GCP	2						617.2		16
9,744.7														
1,309.3														
1,301.2														
=====														
12,355.2														

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